

Concept Note on SARI/EI Knowledge Webinar:

"Energy Storage in South Asia: Regulatory, Technical, and Economic Considerations" by NREL under SARI/E Platform

About SARI/EI Knowledge Webinar on "Energy Storage in South Asia: Regulatory, Technical, and Economic Considerations"

"SARI/EI Knowledge Webinar" is an endeavour by SARI/EI for knowledge-sharing on the best practices in the power market, ancillary services, renewable energy and energy efficiency, for the benefit of South Asian stakeholders.

In this webinar, SARI/EI will collaborate with The National Renewable Energy Laboratory (NREL), wherein their experts will share their study on "Energy Storage in South Asia: Regulatory, Technical, and Economic Considerations" through a 45-mins presentation. The Webinar aims to bring to you experts from NREL in this area, on a virtual platform, to expound the criteria for requirement for energy storage in South Asia region.

NREL is doing the study, with support from the U.S. Department of State, to understand the applications and value of energy storage in the South Asia power system. In the webinar, NREL will share the philosophy underlying the study, the modelling methods used in determining the potential benefits of energy storage for the region, the state-of-the-art methods used to determine how much and where storage might be built given various potential areas, and what regulatory considerations will be necessary for storage success. This webinar will include an overview of the South Asia regional work that NREL has performed and will provide a detailed examination of the methodologies being pursued to understand the potential of energy storage for the region. **The webinar is scheduled on 25th August (Tuesday), from 6 - 7.15 pm (IST).**

Registration Link : https://zoom.us/webinar/register/WN_-qTCY32mSIGnEeV3R5fxuA

Agenda of the webinar

Time	Activity
6 – 6.10 pm	Welcome and setting the context for energy storage in South Asia - by Mr. Pankaj Batra, Project Director, SARI/EI/IRADe
6.10 – 6.55 pm	Presentation on "Energy Storage in South Asia: Regulatory, Technical, and Economic Considerations" - by NREL (David Palchak, Amy Rose, Ilya Chernyakhovskiy)

	<p>Key topics to be covered:</p> <ul style="list-style-type: none"> • Overview of NREL’s work in South Asia • Context for Energy Storage Potential • Policy and Regulatory Considerations for Energy Storage • Technical and Economic Potential for Energy Storage • Conclusions
6.55 – 7.15 pm	Q&A with the audience

Key Speakers



David Palchak

**Researcher IV-Model Engineering
The National Renewable Energy Laboratory**

Mr. Palchak is a member of the Grid Systems Group in the Strategic Energy Analysis Center where he focuses on power system operations at high renewable penetrations. He has studied coal flexibility, demand response or storage, operating reserves, and other strategies for cost-effective renewable integration. David's studies have spanned western and eastern interconnections of North America. He has also worked extensively with the Government of India to help them achieve renewable energy targets through large-scale grid integration studies and to expand modeling capabilities of India’s grid operators through trainings and consultations.



Pankaj Batra

**Project Director, SARI/EI, IRADe, &
Former Chairperson, Central Electricity
Authority**

Mr. Batra is a thought leader in the power industry in India, with 35+ years of experience across several key positions. Mr. Batra has served as the Chairperson & CEO of the Central Electricity Authority, responsible for overall development of the Indian power system including Hydro, Thermal and Renewable Power as well as the Transmission & Distribution System of the country. He was also Member (Planning) and ex-officio Additional Secretary to the Government of India and oversaw various policy and planning functions, including Electric Power Survey Report on long term demand forecasting, National Electricity Plan on generation planning, coal and gas supply to power stations, renewable sources of energy.



Ilya Chernyakhovskiy
Energy Analyst

The National Renewable Energy Laboratory

Ilya has an M.S. in resource economics from the University of Massachusetts Amherst. His work focuses on renewable energy grid integration.



Amy Rose
Energy Analyst

The National Renewable Energy Laboratory

Amy has a Ph.D. in engineering systems from the Massachusetts Institute of Technology. Her work focuses on power sector planning and production cost modeling with specific application to the India grid system.

About SARI/EI program

South Asia Regional Initiative for Energy Integration (SARI/EI) is a long-standing program of USAID since the year 2000. The current and fourth phase of the program (2012-2022), implemented by Integrated Research and Action for Development (IRADe), aims to enhance energy security in South Asia by promoting cross-border electricity trade. This is by creating an enabling environment for power trade by:

i) Harmonization of Policy, Legal and Regulatory Issues; ii) Advancement of transmission interconnections; iii) Establishment of South Asia Regional Electricity Market; and iv) Transfer of clean energy innovations within the South Asian (SA) region. In its extended phase (2018-2022), the SARI/EI program is focused on transitioning bilateral power trade in the region to multilateral power trade, by establishing and strengthening institutional mechanisms to carry forward the legacy of SARI/EI.

To further this objective, SARI/EI seeks to transfer knowledge and learning on all aspects related to the clean energy innovations, which would be of benefit to the South Asian nations.